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L1: Entry 1 of 1

File: USPT

Apr 30, 2002

US-PAT-NO: 6379553DOCUMENT-IDENTIFIER: US 6379553 B1

TITLE: Polymerase enhancing factor (PEF) extracts, PEF protein complexes, isolated PEF proteins, and methods for purifying and identifying same

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hogrefe; Holly	San Diego	CA		

US-CL-CURRENT: 210/656; 435/91.2

CLAIMS:

What is claimed is:

1. A method for purifying a polymerase-enhancing protein comprising:

- (a) solubilizing the protein from archaebacteria cells while substantially maintaining protein:protein interactions;
- (b) performing heparin sepharose chromatography on said sample;
- (c) performing size exclusion chromatography on the product of step (b); and
- (d) identifying a polymerase enhancing activity in a polymerization reaction.

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L2: Entry 1 of 1

File: USPT

Dec 25, 2001

US-PAT-NO: 6333165

DOCUMENT-IDENTIFIER: US 6333165 B1

TITLE: Methods for identifying polymerase enhancing factor (PEF)

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hogrefe; Holly	San Diego	CA		

US-CL-CURRENT: 435/7.4

CLAIMS:

What is claimed is:

1. A method for identifying the presence or absence of an archaeobacterial composition of matter with polymerase enhancing activity comprising adding a protein extract from archaeobacterial cells to a nucleic acid polymerization reaction and measuring the number of products in said polymerization reaction compared to the number of products in a parallel nucleic acid polymerization reaction without said protein extract from archaeobacterial cells.
2. The method of claim 1 wherein the polymerase activity employed in said nucleic acid polymerization reaction comprises at least one of native or cloned bacterial DNA polymerase, native or cloned archaeobacterial DNA polymerase, *Pyrococcus furiosus* DNA polymerase, native or cloned reverse transcriptase, or native or cloned RNA polymerase.
3. The method of claim 1 wherein the polymerization reaction comprises one of a PCR process or RT-PCR process.
4. The method of claim 2 wherein the polymerization reaction comprises one of a PCR process or RT-PCR process.